

LUMINARIES









Luminaries

- A luminary is a great way to add visual appeal to your landscape.
- Add value, beauty and elegance to your property.
- Available in an endless array of styles, sizes and colors, luminaries can accommodate any part of your landscape.
- The output characteristics of luminaires describe the way in which a lighting fixture performs its main function, that of distributing luminous flux emitted from the lamp in a space.













Application

The most common uses for luminaries for commercial applications are:

- Commercial Buildings
- Streets
- Parks
- Public areas
- Car Parks
- Company Signage

The most commons uses for luminaries for residential applications are:

- Patios
- Pathways and walkways
- Around swimming pools
- Garden Beds
- Driveways



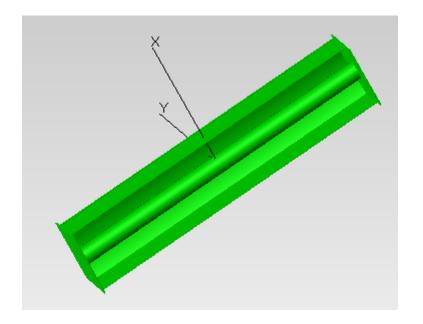




Design Luminaries

To Design Luminaries, we need following Object:

- Source (Bulb, Flourescent Tube, etc)
- Back Reflector or Diffuse Boundary



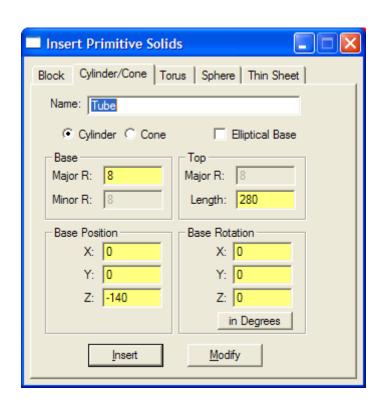


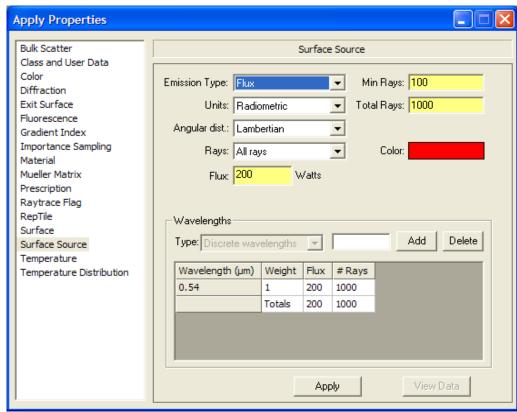




Design TUBELIGHT

- Define Tube by go to Insert > Primitive Solid > Cylinder/Cone
- Define Tube as Light Souce by Select Surface 0





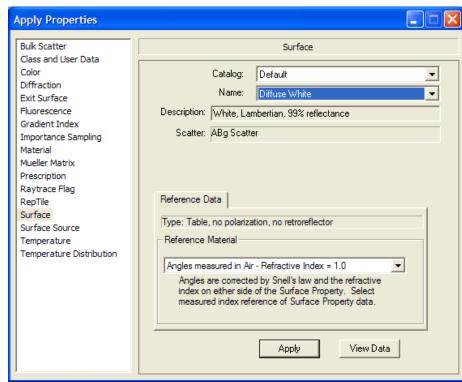


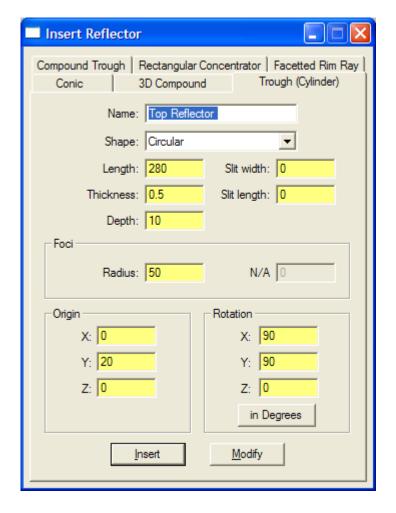




Top Reflector

- Top Reflector can be define by Go to Insert > Reflector > Trough
- Define Inner Surface 4 as perfect Diffuser





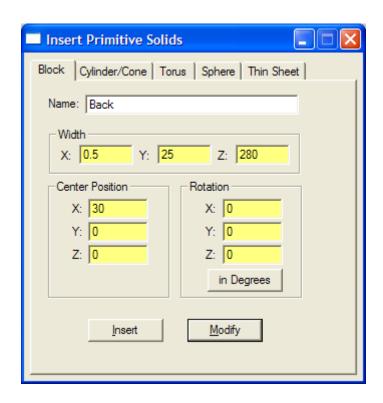


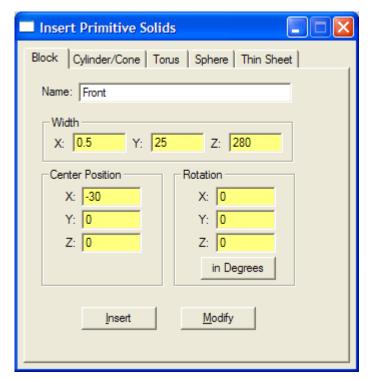




Side Walls

• Define Side walls by Go to Insert > Primitive Solids > Block as below



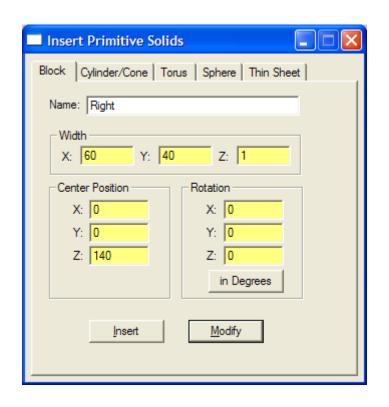


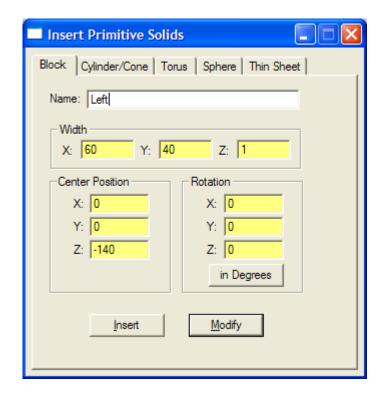






Side Walls





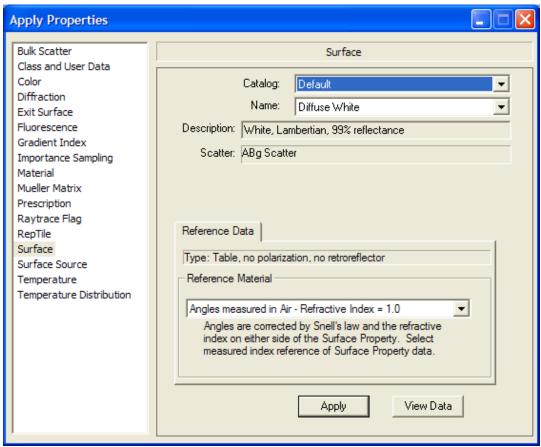






Research Surface Properties of Side Wall

Select Inner Surface and Define Diffuse white





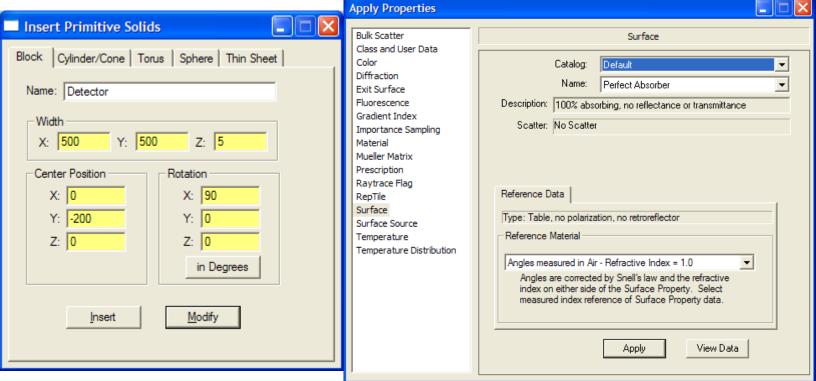




Detector

We can define detector which act as Floor with following properties & Location:

• Surface 1 define as perfect absorber.



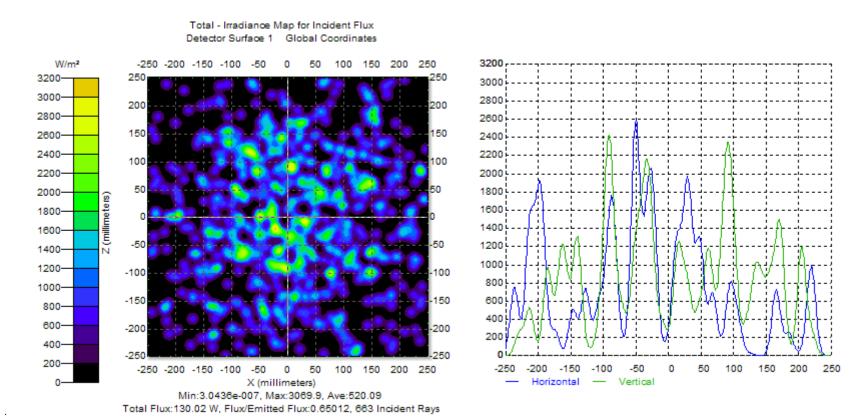






Analysis

• Raytrace > Trace Rays



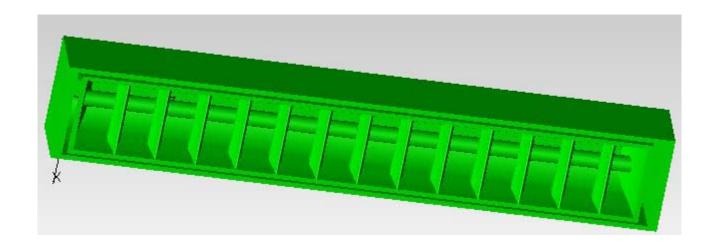






Modify

• Define Luminaries with introduce "Grillet"

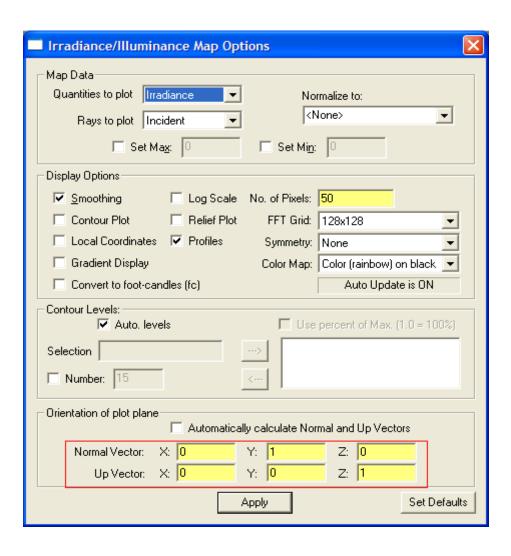








Detector









Analysis

Total - Illuminance Map for Incident Flux Detector Surface 1 Global Coordinates

